

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/540,843
Source: IFWSP
Date Processed by STIC: 7/24/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 07/24/2006

PATENT APPLICATION: US/10/540,843

TIME: 11:24:26

Input Set : A:\2600541_1.TXT

Output Set: N:\CRF4\07242006\J540843.raw

```

4 <110> APPLICANT: Mariscal-Gonzalez, Lorenza
5     Nava-Dominguez, Porfiro
7 <120> TITLE OF INVENTION: EMPLOYMENT OF ROTAVIRUS PROTEINS,
8     DERIVED PROTEINS AND PEPTIDES FOR THE MODULATION OF TISSUE
9     PERMEABILITY
11 <130> FILE REFERENCE: UHT1.001APC
13 <140> CURRENT APPLICATION NUMBER: US 10/540,843
14 <141> CURRENT FILING DATE: 2005-06-27
16 <150> PRIOR APPLICATION NUMBER: PCT/IB03/00280
17 <151> PRIOR FILING DATE: 2003-01-10
19 <160> NUMBER OF SEQ ID NOS: 7
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 776
25 <212> TYPE: PRT
26 <213> ORGANISM: Rhesus Monkey Rotavirus
28 <400> SEQUENCE: 1
29 Met Ala Ser Leu Ile Tyr Arg Gln Leu Leu Thr Asn Ser Tyr Thr Val
30 1          5          10          15
31 Asp Leu Ser Asp Glu Ile Gln Glu Ile Gly Ser Thr Lys Thr Gln Asn
32          20          25          30
33 Val Thr Ile Asn Leu Gly Pro Phe Ala Gln Thr Gly Tyr Ala Pro Val
34          35          40          45
35 Asn Trp Gly Pro Gly Glu Thr Asn Asp Ser Thr Thr Val Glu Pro Val
36          50          55          60
37 Leu Asp Gly Pro Tyr Gln Pro Thr Ser Phe Asn Pro Pro Val Asp Tyr
38 65          70          75          80
39 Trp Met Leu Leu Ala Pro Thr Ala Ala Gly Val Val Val Glu Gly Thr
40          85          90          95
41 Asn Asn Thr Asp Arg Trp Leu Ala Thr Ile Leu Val Glu Pro Asn Val
42          100         105         110
43 Thr Ser Glu Thr Arg Ser Tyr Thr Leu Phe Gly Thr Gln Glu Gln Ile
44          115         120         125
45 Thr Ile Ala Tyr Ala Ser Gln Thr Gln Trp Lys Phe Ile Asp Val Val
46          130         135         140
47 Lys Thr Thr Gln Asn Gly Ser Tyr Ser Gln Tyr Gly Pro Leu Gln Ser
48 145         150         155         160
49 Thr Pro Lys Leu Tyr Ala Val Met Lys His Asn Gly Lys Ile Tyr Thr
50          165         170         175
51 Tyr Asn Gly Glu Thr Pro Asn Val Thr Thr Lys Tyr Tyr Ser Thr Thr
52          180         185         190
53 Asn Tyr Asp Ser Val Asn Met Thr Ala Phe Cys Asp Phe Tyr Ile Ile
54          195         200         205

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/540,843

DATE: 07/24/2006

TIME: 11:24:26

Input Set : A:\2600541_1.TXT

Output Set: N:\CRF4\07242006\J540843.raw

```

55 Pro Arg Glu Glu Glu Ser Thr Cys Thr Glu Tyr Ile Asn Asn Gly Leu
56      210                      215                      220
57 Pro Pro Ile Gln Asn Thr Arg Asn Ile Val Pro Leu Ala Leu Ser Ala
58 225                      230                      235                      240
59 Arg Asn Ile Ile Ser His Arg Ala Gln Ala Asn Glu Asp Ile Val Val
60      245                      250                      255
61 Ser Lys Thr Ser Leu Trp Lys Glu Met Gln Tyr Asn Arg Asp Ile Thr
62      260                      265                      270
63 Ile Arg Phe Lys Phe Ala Ser Ser Ile Val Lys Ser Gly Gly Leu Gly
64      275                      280                      285
65 Tyr Lys Trp Ser Glu Ile Ser Phe Lys Pro Ala Asn Tyr Gln Tyr Thr
66      290                      295                      300
67 Tyr Thr Arg Asp Gly Glu Asp Val Thr Ala His Thr Thr Cys Ser Val
68 305                      310                      315                      320
69 Asn Gly Met Asn Asp Phe Asn Phe Asn Gly Ser Leu Pro Thr Asp
70      325                      330                      335
71 Phe Ile Ile Ser Arg Tyr Glu Val Ile Lys Glu Asn Ser Tyr Val Tyr
72      340                      345                      350
73 Val Asp Tyr Trp Asp Asp Ser Gln Ala Phe Arg Asn Met Val Tyr Val
74      355                      360                      365
75 Arg Ser Leu Ala Ala Asn Leu Asn Ser Val Ile Cys Thr Gly Gly Asp
76      370                      375                      380
77 Tyr Ser Phe Ala Leu Pro Val Gly Gln Trp Pro Val Met Thr Gly Gly
78 385                      390                      395                      400
79 Ala Val Ser Leu His Ser Ala Gly Val Thr Leu Ser Thr Gln Phe Thr
80      405                      410                      415
81 Asp Phe Val Ser Phe Asn Ser Leu Arg Phe Arg Phe Arg Leu Thr Val
82      420                      425                      430
83 Glu Glu Pro Ser Phe Ser Ile Thr Arg Thr Arg Val Gly Gly Leu Tyr
84      435                      440                      445
85 Gly Leu Pro Ala Ala Tyr Pro Asn Asn Gly Lys Glu Tyr Tyr Glu Val
86      450                      455                      460
87 Ala Gly Arg Leu Ser Leu Ile Ser Leu Val Pro Ser Asn Asp Asp Tyr
88 465                      470                      475                      480
89 Gln Thr Pro Ile Thr Asn Ser Val Thr Val Arg Gln Asp Leu Glu Arg
90      485                      490                      495
91 Gln Leu Gly Glu Leu Arg Glu Glu Phe Asn Ala Leu Ser Gln Glu Ile
92      500                      505                      510
93 Ala Met Ser Gln Leu Ile Tyr Leu Ala Leu Leu Pro Leu Asp Met Phe
94      515                      520                      525
95 Ser Met Phe Ser Gly Ile Lys Ser Thr Ile Asp Ala Ala Lys Ser Met
96      530                      535                      540
97 Ala Thr Ser Val Met Lys Lys Phe Lys Lys Ser Gly Leu Ala Asn Ser
98 545                      550                      555                      560
99 Val Ser Thr Leu Thr Asp Ser Leu Ser Asp Ala Ala Ser Ser Ile Ser
100      565                      570                      575
101 Arg Gly Ala Ser Ile Arg Ser Val Gly Ser Ser Ala Ser Ala Trp Thr
102      580                      585                      590
103 Asp Val Ser Thr Gln Ile Thr Asp Val Ser Ser Ser Val Ser Ser Ile

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/540,843

DATE: 07/24/2006

TIME: 11:24:26

Input Set : A:\2600541_1.TXT

Output Set: N:\CRF4\07242006\J540843.raw

```

104          595          600          605
105 Ser Thr Gln Thr Ser Thr Ile Ser Arg Arg Leu Arg Leu Lys Glu Met
106          610          615          620
107 Ala Thr Gln Thr Glu Gly Met Asn Phe Asp Asp Ile Ser Ala Ala Val
108 625          630          635          640
109 Leu Lys Thr Lys Ile Asp Arg Ser Thr Gln Ile Ser Pro Asn Thr Leu
110          645          650          655
111 Pro Asp Ile Val Thr Glu Ala Ser Glu Lys Phe Ile Pro Asn Arg Ala
112          660          665          670
113 Tyr Arg Val Ile Asn Asn Asp Glu Val Phe Glu Ala Gly Thr Asp Gly
114          675          680          685
115 Arg Tyr Phe Ala Tyr Arg Val Glu Thr Phe Asp Glu Ile Pro Phe Asp
116          690          695          700
117 Val Gln Lys Phe Ala Asp Leu Val Thr Asp Ser Pro Val Ile Ser Ala
118 705          710          715          720
119 Ile Ile Asp Phe Lys Thr Leu Lys Asn Leu Asn Asp Asn Tyr Gly Ile
120          725          730          735
121 Ser Arg Gln Gln Ala Phe Asn Leu Leu Arg Ser Asp Pro Arg Val Leu
122          740          745          750
123 Arg Glu Phe Ile Asn Gln Asp Asn Pro Ile Ile Arg Asn Arg Ile Glu
124          755          760          765
125 Gln Leu Ile Met Gln Cys Arg Leu
126          770          775
129 <210> SEQ ID NO: 2
130 <211> LENGTH: 231
131 <212> TYPE: PRT
132 <213> ORGANISM: Rhesus Monkey Rotavirus
134 <400> SEQUENCE: 2
135 Met Ala Ser Leu Ile Tyr Arg Gln Leu Leu Thr Asn Ser Tyr Thr Val
136 1          5          10          15
137 Asp Leu Ser Asp Glu Ile Gln Glu Ile Gly Ser Thr Lys Thr Gln Asn
138          20          25          30
139 Val Thr Ile Asn Leu Gly Pro Phe Ala Gln Thr Gly Tyr Ala Pro Val
140          35          40          45
141 Asn Trp Gly Pro Gly Glu Thr Asn Asp Ser Thr Thr Val Glu Pro Val
142          50          55          60
143 Leu Asp Gly Pro Tyr Gln Pro Thr Ser Phe Asn Pro Pro Val Asp Tyr
144 65          70          75          80
145 Trp Met Leu Leu Ala Pro Thr Ala Ala Gly Val Val Val Glu Gly Thr
146          85          90          95
147 Asn Asn Thr Asp Arg Trp Leu Ala Thr Ile Leu Val Glu Pro Asn Val
148          100          105          110
149 Thr Ser Glu Thr Arg Ser Tyr Thr Leu Phe Gly Thr Gln Glu Gln Ile
150          115          120          125
151 Thr Ile Ala Tyr Ala Ser Gln Thr Gln Trp Lys Phe Ile Asp Val Val
152          130          135          140
153 Lys Thr Thr Gln Asn Gly Ser Tyr Ser Gln Tyr Gly Pro Leu Gln Ser
154 145          150          155          160
155 Thr Pro Lys Leu Tyr Ala Val Met Lys His Asn Gly Lys Ile Tyr Thr

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/540,843

DATE: 07/24/2006

TIME: 11:24:26

Input Set : A:\2600541_1.TXT

Output Set: N:\CRF4\07242006\J540843.raw

```

156                               165                               170                               175
157 Tyr Asn Gly Glu Thr Pro Asn Val Thr Thr Lys Tyr Tyr Ser Thr Thr
158                               180                               185                               190
159 Asn Tyr Asp Ser Val Asn Met Thr Ala Phe Cys Asp Phe Tyr Ile Ile
160                               195                               200                               205
161 Pro Arg Glu Glu Glu Ser Thr Cys Thr Glu Tyr Ile Asn Asn Gly Leu
162                               210                               215                               220
163 Pro Pro Ile Gln Asn Thr Arg
164 225                               230
167 <210> SEQ ID NO: 3
168 <211> LENGTH: 42
169 <212> TYPE: PRT
170 <213> ORGANISM: Rhesus Monkey Rotavirus
172 <400> SEQUENCE: 3
173 Ile Asp Val Val Lys Thr Thr Gln Asn Gly Ser Tyr Ser Gln Tyr Gly
174 1                               5                               10                               15
175 Pro Leu Gln Ser Thr Pro Lys Leu Tyr Ala Val Met Lys His Asn Gly
176                               20                               25                               30
177 Lys Ile Tyr Thr Tyr Asn Gly Glu Thr Pro
178 35                               40
181 <210> SEQ ID NO: 4
182 <211> LENGTH: 4
183 <212> TYPE: PRT
184 <213> ORGANISM: Rhesus Monkey Rotavirus
186 <400> SEQUENCE: 4
187 Val Val Lys Thr
188 1
191 <210> SEQ ID NO: 5
192 <211> LENGTH: 8
193 <212> TYPE: PRT
194 <213> ORGANISM: Rhesus Monkey Rotavirus
196 <400> SEQUENCE: 5
197 Ser Tyr Ser Gln Tyr Gly Pro Leu
198 1                               5
201 <210> SEQ ID NO: 6
202 <211> LENGTH: 4
203 <212> TYPE: PRT
204 <213> ORGANISM: Rhesus Monkey Rotavirus
206 <400> SEQUENCE: 6
207 Ile Tyr Thr Tyr
208 1
211 <210> SEQ ID NO: 7
212 <211> LENGTH: 4
213 <212> TYPE: PRT
214 <213> ORGANISM: Rhesus Monkey Rotavirus
216 <400> SEQUENCE: 7
217 Asn Val Thr Thr
218 1

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/540,843

DATE: 07/24/2006

TIME: 11:24:27

Input Set : A:\2600541_1.TXT

Output Set: N:\CRF4\07242006\J540843.raw